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L1	0	biometric.clm. and measur\$3.clm. and conver\$4.clm. and process.clm. and extract\$3.clm. and compar\$3.clm. and communication.clm. and parameters.clm. and key.clm. and encipher\$3.clm. and register\$3.clm. and predetermin\$3.clm.	US-PGPUB; USPAT	OR	OFF	2007/01/06 18:00
L2	30	biometric and measur\$3 and conver\$4 and process and extract\$3 and compar\$3 and communication and parameters and key and encipher\$3 and register\$3 and predetermin\$3	US-PGPUB; USPAT	OR	OFF	2007/01/06 18:02
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L4	1618	713/182	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/06 18:02
L5	1731	713/182 or 713/168 and 708/135 or 726/2 or 379/39,02	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/06 18:03
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1 [Poster 2: applications track: Haptic: the new biometrics-embedded media to recognizing a](#)

Mauricio Orozco Trujillo, Ismail Shakra, Abdulmotaleb El Saddik
November 2005 **Proceedings of the 13th annual ACM international conference on Multim**

Publisher: ACM Press

Full text available: pdf(276.74 KB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Authentication for the purposes of security has taken giant strides since the introduction of Bior features. From organizations and corporations to educational institutes, electronic resources, ar detect fraud attempts. This paper proposes a research path to achieve the task of authenticatin Biome ...

Keywords: biometrics, haptic systems, hapto-task

2 [Security issues for wireless ATM networks](#)

Danai Patiyoot
January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1

Publisher: ACM Press

Full text available: pdf(1.75 MB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

To be able to fulfil the need of user in wireless ATM, the system has to acquire features. One of the security aspect. There is so far tittle, if not none, security consideration in the developing o security functions is in consideration. This paper tried to define the features of security in wirele netwo ...

Keywords: security, wireless ATM

3 [Authentication and authorization: Silicon physical random functions](#)

Blaise Gassend, Dwaine Clarke, Marten van Dijk, Srinivas Devadas
November 2002 **Proceedings of the 9th ACM conference on Computer and communicatio**

Publisher: ACM Press

Full text available: pdf(433.69 KB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

We introduce the notion of a Physical Random Function (PUF). We argue that a complex integra to identify and authenticate individual integrated circuits (ICs).We describe several possible circ implemented in commodity Field Programmable Gate Arrays (FPGAs). We present experiments

performed even in the ...

Keywords: identification, physical random function, physical security, smartcard, tamper resis

4 Oral II: Secure smartcardbased fingerprint authentication



T. Charles Clancy, Negar Kiyavash, Dennis J. Lin

November 2003

Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods

Publisher: ACM Press

Full text available: pdf(452.50 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

In this paper, the fundamental insecurities hampering a scalable, wide-spread deployment of bi using fingerprint data as its key is presented. For our application, we focus on situations where networked environment, and we assume an attacker can launch o -line attacks against a stolen buildi ...

Keywords: authentication, biometrics, fingerprint, smartcard

5 Security, privacy and anonymity: Privacy preserving multi-factor authentication with biome



Abhilasham Bhargav-Spantzel, Anna Squicciarini, Elisa Bertino

November 2006

Proceedings of the second ACM workshop on Digital identity manageme

Publisher: ACM Press

Full text available: pdf(228.45 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

An emerging approach to the problem of reducing the identity theft is represented by the adopt present however several challenges, related to privacy, reliability, security of the biometric data authentication. Moreover, very often biometric authentication in itself is not sufficient as a conc other proofs ...

Keywords: authentication, biometrics, identity theft prevention, privacy

6 Seeing, hearing, and touching: putting it all together



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004

ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.64 MB)

Additional Information: [full citation](#)

7 The effects of multiplexing on a computer-communications system



Charles D. Pack

March 1973

Communications of the ACM, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(684.31 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

A study is made of the way in which asynchronous time division multiplexing changes the stoch consequently, affects the performance of a time-shared computer-communications system. It is there is noticeable improvement in the performance of the computer (model), in the sense that offset by the tra ...

Keywords: computer communications, multiplexing, operating systems, scheduling algorithms

8 Risk transparency: Privacy and security threat analysis of the federal employee personal i



Paul A. Karger
July 2006

Proceedings of the second symposium on Usable privacy and security S

Publisher: ACM Press

Full text available: pdf(113.11 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

This paper is a security and privacy threat analysis of new Federal Information Processing Stan some problems with the standard, and it proposes solutions to those problems, using standardi Exchange (IKE) protocol [16]. When the standard is viewed in the abstract, it seems to effectiv cryptographic algorithms. ...

Keywords: personal identification, privacy, smart cards

9 Multimodal communication: Exploiting prosodic structuring of coverbal gesticulation



Sanshzar Kettebekov
October 2004

Proceedings of the 6th international conference on Multimodal interface

Publisher: ACM Press

Full text available: pdf(471.00 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

Although gesture recognition has been studied extensively, communicative, affective, and biom One of the main reasons for that is the modeling complexity of spontaneous gestures. While le> disambiguating gestures, it does not cover rich paralinguistic domain. This paper offers initial fi structuring betwe ...

Keywords: gesture, multimodal, prosody, speech

10 A fuzzy commitment scheme



Ari Juels, Martin Wattenberg
November 1999

Proceedings of the 6th ACM conference on Computer and communicatio

Publisher: ACM Press

Full text available: pdf(966.08 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

We combine well-known techniques from the areas of error-correcting codes and cryptography a fuzzy commitment scheme. Like a conventional cryptographic commitment scheme, our fuzzy for an attacker to learn the committed value, and also for the committer to decommit a value ir

11 Security as a new dimension in embedded system design: Security as a new dimension in



Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan
June 2004

Proceedings of the 41st annual conference on Design automation

Publisher: ACM Press

Full text available: pdf(209.10 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

The growing number of instances of breaches in information security in the last few years has c systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, an interesting security challenges. Security has been the subject of intensive research in the areas these efforts, *security is ...*

Keywords: PDAs, architectures, battery life, cryptography, design, design methodologies, digit security processing, security protocols, sensors, software attacks, tamper resistance, trusted cc

12 Security in embedded systems: Design challenges



Srivaths Ravi, Anand Raghunathan, Paul Kocher, Sunil Hattangady
August 2004

ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issu

Publisher: ACM Press

Full text available:  pdf(3.67 MB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

Many modern electronic systems---including personal computers, PDAs, cell phones, network r access, store, manipulate, or communicate sensitive information, making security a serious cor range of products from the electronics, semiconductor, telecommunications, and networking inc the one hand, they are oft ...

Keywords: Embedded systems, architecture, authentication, battery life, cryptographic algorit requirements, security, security attacks, security protocols, tamper resistance

13 [Architecture of the IBM system/370](#)



Richard P. Case, Andris Padegs

January 1978

Communications of the ACM, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.78 MB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

This paper discusses the design considerations for the architectural extensions that distinguish with the original objectives for System/360 and on the efforts to achieve them, and it describes virtual storage, program control, data-manipulation instructions, timing facilities, multiprocessing operations. ...

Keywords: architecture, computer systems, error handling, instruction sets, virtual storage

14 [Shape-based retrieval and analysis of 3D models](#)



Thomas Funkhouser, Michael Kazhdan

August 2004

ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available:  pdf(12.56 MB)

Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechan of 3D models grows, there is an increasing need for computer algorithms to help people find th Unfortunately, traditional text-based search techniques are not always effective for 3D models, objects that fit into thi ...

15 [Architectures for cryptography and security applications: A side-channel leakage free copr cryptographic and biometric processing](#)



K. Tiri, D. Hwang, A. Hodjat, B. Lai, S. Yang, P. Schaumont, I. Verbauwhede

June 2005

Proceedings of the 42nd annual conference on Design automation

Publisher: ACM Press

Full text available:  pdf(2.92 MB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

Security ICs are vulnerable to side-channel attacks (SCAs) that find the secret key by monitorir the switching behavior of digital CMOS gates. This paper describes a side-channel attack resista fabricated in 0.18µm CMOS. The coprocessor, which is used for embedded cryptographic and bi Encryption Standard (AES) ...

Keywords: countermeasure, differential power analysis, encryption, security IC, side-channel :

16 [Face recognition: A literature survey](#)



W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003

ACM Computing Surveys (CSUR), Volume 35 Issue 4

Publisher: ACM Press

Full text available:  pdf(4.28 MB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

As one of the most successful applications of image analysis and understanding, face recognition has become a major research topic in the past several years. At least two reasons account for this trend: the first is the wide range of commercial applications and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition success is ...

Keywords: Face recognition, person identification

17 An experimental distributed modeling system



Gary J. Nutt

April 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(1.69 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

18 Voice biometrics



Judith A. Markowitz

September 2000 **Communications of the ACM**, Volume 43 Issue 9

Publisher: ACM Press

Full text available: pdf(240.49 KB) html(36.88 KB) Additional Information: [full citation](#), [references](#), [citations](#)

19 Computer security (SEC): Protected transmission of biometric user authentication data for



Ulrich Waldmann, Dirk Scheuermann, Claudia Eckert

March 2004

Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(574.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Since fingerprint data are no secrets but of public nature, the verification data transmitted to a smartcard means in order to assure data origin in the biometric sensor and to prevent bypassing the sensor. The smartcard user smartcard is protected with a cryptographic checksum that is calculated within a separate integrated bio ...

Keywords: authentication, biometrics, cryptographic protocols, data integrity, electronic signature, secure environment

20 Configuration agents, control and privacy



Shari Trewin

November 2000




Proceedings on the 2000 conference on Universal Usability

Publisher: ACM Press

Full text available: pdf(900.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

When a truly diverse community of users is considered, it is clear that a single interface, no matter how good, is not an interface to match a particular user's requirements can be a demanding task. This paper focuses on designing interfaces with low initial levels of control, or low levels of knowledge about configuration. The relationship between the user and the interface is ...

Keywords: configuration, interface agents, privacy, universal usability, user interface design, user interface

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